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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,933	04/02/2004	Alexander Buhl	41653-201032	9442
26694	7590	06/14/2006	EXAMINER	
VENABLE LLP			TAWFIK, SAMEH	
P.O. BOX 34385			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20045-9998			3721	

DATE MAILED: 06/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/815,933

Applicant(s)

BUHL ET AL.

Examiner

Sameh H. Tawfik

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 April 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-13,27 and 28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-13,27 and 28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-7, 11-13, 27, and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Ancelle et al. (U.S. Patent No. 3,834,869).

Ancelle discloses a method for producing a non-woven fiber composite for the manufacture of filters in the tobacco industry the method comprising feeding separated fiber materials to a fluidized bed (Figs. 1 and 2; via conduit 11); introducing a transport air through the fluidized bed (via air fan 29) to transport the separated fiber material (2-4) to a suction conveyor (Fig. 3; via conveyor 35 and suction box 36) where the transport air flows through the fluidized bed in the direction of the suction conveyor (Figs. 1-3); and compiling the fiber material on the suction conveyor wherein the fluidized bed comprises a curved portion in which the separated fiber material is directed in an upward direction to the suction conveyor (Figs. 2 and 3).

Regarding claim 3: further comprising providing fibers of different compositions (Figs. 1 and 2; via 2-4).

Regarding claim 4: wherein the fibers in the fluidized bed (via 11) further comprises at least one additive (Fig. 3; via 39).

Regarding claim 5: wherein the separated fibers have a length from about 2 to about 100mm.

Regarding claim 6: wherein the average fiber diameter of the separated fibers is in the range of from about 10 to about 40 μ m.

Regarding claim 7: wherein the average fiber diameter of the separated fibers is in the range of from about 20 to about 38 μ m.

Regarding claim 11: successively feeding separated fiber materials (via through hoppers 2-4) of differing composition to the fluidized bed (via 11).

Regarding claim 12: wherein the feeding step further comprises the separating of fibers (via 8-10).

Regarding claim 13: further comprises forming a continuous fiber filter rod from the compiled fibers and dividing the continuous rod into individual filter sections, see for example (Figs. 1-8).

Regarding claim 27: wherein the transport air of the introducing step initially moves the separated fiber material downward toward the curved fluidized bed, then the transport air moves the separated fiber material generally horizontal along the curved fluidized bed and finally the transport air moves the separated fiber material along the curved fluidized bed upward toward the suction conveyor, see for example (Fig. 2).

Regarding claim 28: wherein the sharpest curvature of the curved fluidized bed is adjacent the suction conveyor (Figs. 2 and 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ancelle et al. (U.S. Patent No. 3,834,869).

Ancelle does not disclose that the separated fibers are synthetic fibers. However, the examiner takes an official notices that using synthetic fibers is old, well known, and available in the art. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Ancelle's method for producing a non-woven fiber, by using a synthetic fibers, in order to easily shaping the filters to specific shape.

Regarding claim 9: Ancelle discloses that the fiber strength of the synthetic fibers is from about 1 to about 20 dtex.

Regarding claim 10: Ancelle discloses that wherein the fiber strength of the synthetic fibers (34) is from about 2 to about 6 dtex.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-13, 27, and 28 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

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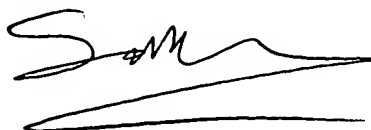
the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sameh H. Tawfik whose telephone number is 571-272-4470. The examiner can normally be reached on Tuesday - Friday from 8:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sameh H. Tawfik
Primary Examiner
Art Unit 3721



ST.